

Accessories

Universal offers single source supply for exhaust systems. An exhaust system is not complete without the accessories used during installation. The advantages of using one source are reduced paperwork and the knowledge that it will all fit at the job-site or on the production floor. Use the inlet size of the engine and the silencer to guide the selection process.

Accessories	Page
Relief Covers and Inspection Openings	6.2
Straight Flex Connectors	6.3–6.4
Straight Flex Connectors - Braided	6.5
90° Elbow Flex Connectors	6.6
Wye Connectors - Cat® Engines	6.7–6.8
Wye Connectors - Cummins® Engines	6.9–6.10
Wye Connectors - Detroit Diesel/MTU® Engines	6.11
Wye Connectors - Kohler® Engines	6.12–6.13
Outlet Extensions	6.14–6.15
Raincaps	6.16
Connectors	6.17–6.18
Silencer Attachment Brackets	6.19
Companion Flange Kits	6.20–6.21
Reduction/Oversize Flange Kit	6.22
Nut, Bolt and Gasket Kits - ANSI	6.23
Nut, Bolt and Gasket Kits	6.24
Clamps	6.25–6.26
Enclosure Rain Shield Kits	6.27–6.28
Roof/Wall Thimble	6.29
Insulation Blankets	6.30
Weld-On Attachment Brackets	6.31–6.33
Weld-On Legs	6.34

•• **Universal** understands that each package design is unique. If an accessory item doesn't fit the dimensions required, Universal can make custom sizes. Just mark up the outline drawing of the nearest item in functionality and shape with the required dimensions and send it to us for a custom quote.

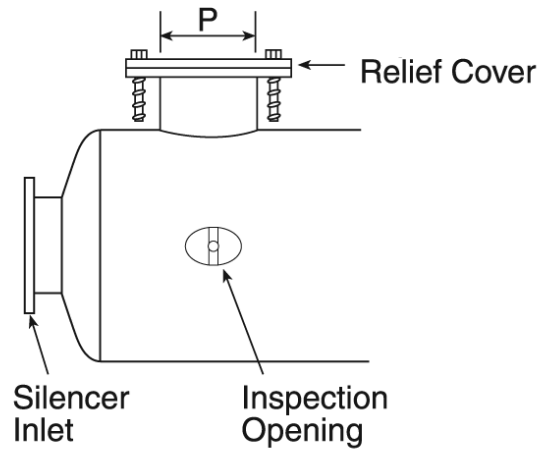
•• All dimensions are in inches unless otherwise stated.
All weights are in lbs and are approximate.

•• All information correct at time of printing. Universal has a policy of continuous improvement. Therefore we reserve the right to change the specifications of these silencers without notice.

Need something similar with slight modifications?

Mark up the outline drawing above and fax to (608) 873-7298 or scan and email to info@universalAET.com

Relief Covers and Inspection Openings



Relief Cover

Part Number	Silencer Body Diameter	Pressure Relief Cover Diameter	Weight
Q34361	10–14	4.125	4
Q34362	16–18	8.125	7
Q34363	22–26	8.250	10
Q34853	30–36	12.375	12
Q34854	42–48	16.000	14
Q34855	54–60	20.000	18

- Explosion relief covers are designed to open at 5 PSI to protect silencer shell against rupture in case of backfire or explosion of residual gases within the exhaust system. One unit in the first chamber of silencer is adequate.

Inspection Opening

Part Number	Insp. Opening Size	Weight
80-1019	3 x 4	4
80-1020	4 x 6	6
Q34822	5 x 7	6
80-1021	6 x 8	12
Q34852	8 x 10	12

- Inspection openings have removable covers to provide access to silencer internals for inspection or cleaning. One opening per silencer is recommended.

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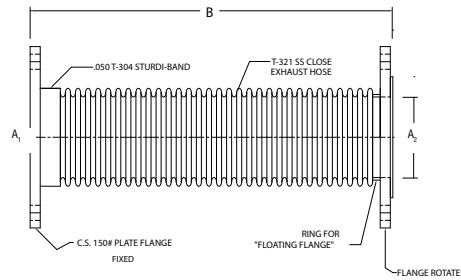
Flex connectors are typically used to connect a silencer to the exhaust outlet of an engine or compressor. Each flex connector is designed for vibration dampening and thermal expansion, not for misalignment. All assemblies are heli-arc welded to ensure that the base material is not undercut. Flex

is comprised of TYPE 321 Stainless Steel Bellows material. Flanged ends are made of 150# ASA. Male NPT connections are constructed of Schedule 40 Steel Pipe. All non-stainless steel components are coated with high temperature paint.

Straight Flex Connectors

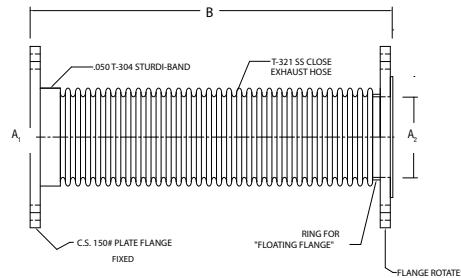
ANSI Flange: Fixed & Float

A ₁	Part Number	A	B	Weight
4	80-3505	4	18	14
5	80-3506	5	18	17
6	80-3507	6	18	24
8	80-3508	8	18	36
10	80-3509	10	18	62
12	80-3510	12	18	69



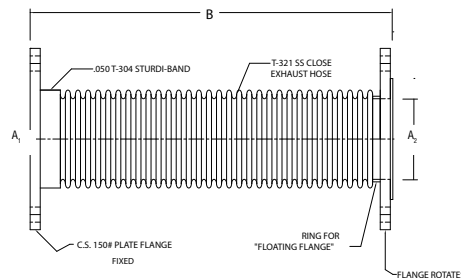
ANSI Flange: Both Fixed

A ₁	Part Number	A	B	Weight
4	909240F	4	18	14
5	909250F	5	18	17
6	909260F	6	18	24
8	909280F	8	18	36
10	909282F	10	18	62
12	909284F	12	18	69
14	909286F	14	18	90
16	909288F	16	18	110



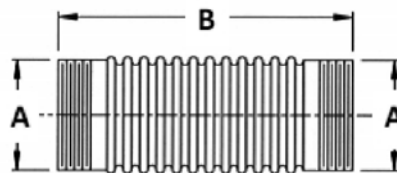
ANSI Flange: Step Up/Down

A ₁	Part Number	A	B	Weight
4	80-4045	5	18	16
5	80-4046	6	18	19
6	80-4047	8	18	26
8	80-4048	10	18	39
10	80-4049	12	18	65
12	80-4050	14	18	79



Male NPT Threaded Ends

Pipe Size	Part Number	A	B	Weight
2	909120P	2	18	7
2.5	909125P	2.5	18	9
3	909130P	3	18	10
3.5	909135P	3.5	18	12
4	909140P	4	18	14
5	909150P	5	18	17
6	909160P	6	18	24
8	909180P	8	18	32



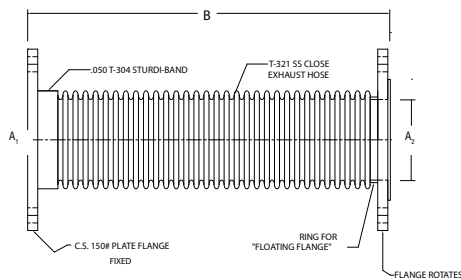
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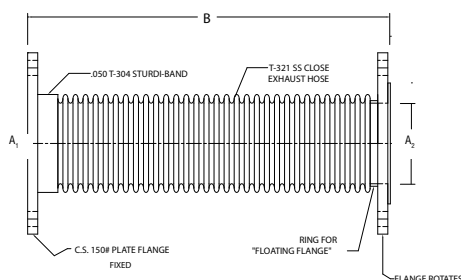
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Straight Flex Connectors



- Flex material is produced from Type 321 Stainless Steel Bellows
- Inlet connection flange is fixed and fabricated to mate with Cummins engine exhaust flange
- Outlet connection flange is floated and is 150# ANSI
- Assemblies are heli-arc welded to ensure base material is not undercut
- Flex connector should be used for vibration dampening and thermal expansion in lateral deflection movement only—not axial compression
- Nut, Bolt and Gasket kit(s) sold separately
- Contact factory for custom sizes
- All non-stainless steel components are coated with high temperature paint



- Flex material is produced from Type 321 Stainless Steel Bellows
- Inlet connection flange is fixed and fabricated to mate with Cat engine exhaust flange
- Outlet connection flange is floated and is 150# ANSI
- Assemblies are heli-arc welded to ensure base material is not undercut
- Flex connector should be used for vibration dampening and thermal expansion in lateral deflection movement only—not axial compression
- Nut, Bolt and Gasket kit(s) sold separately
- Contact factory for custom sizes
- All non-stainless steel components are coated with high temperature paint

Cummins Engines

Inlet Size (in)	A1 (in)	Part Number	Outlet Size A2 (in)	Length B (in)	Weight (lbs.)
5		80-4273	5	18	17
6		80-4274	6	18	24

Single Reduction - Cummins Engines

Inlet Size (in)	A1 (in)	Part Number	Outlet Size A2 (in)	Length B (in)	Weight (lbs.)
5		80-4271	6	18	19
6		80-4272	8	18	26

Cat Engines

Inlet Size (in)	A1 (in)	Part Number	Outlet Size A2 (in)	Length B (in)	Weight (lbs.)
4		80-4200	4	18	14
5		80-4201	5	18	17
6		80-4202	6	18	24
8		80-4203	8	18	36
10		80-4204	10	18	62
12		80-4205	12	18	69

Single Reduction - Cat Engines

Inlet Size (in)	A1 (in)	Part Number	Outlet Size A2 (in)	Length B (in)	Weight (lbs.)
4		80-4275	5	18	16
5		80-4276	6	18	20
6		80-4277	8	18	28
8		80-4278	10	18	40
10		80-4279	12	18	66
12		80-4280	14	18	74

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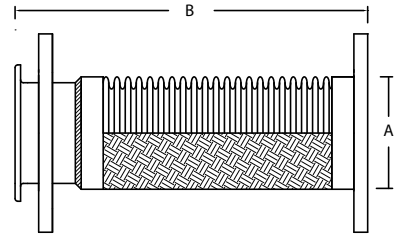
Braided flex connectors are typically used to connect a silencer to the exhaust outlet of an engine or compressor. They are designed for vibration and lateral deflection (offset). Compression of the connector will cause early failure. All assemblies are heli-arc

welded to ensure that the base material is not undercut. Flex and braids are comprised of TYPE 321 Stainless Steel Bellows material. Flanged ends are made of 150# ASA. All non-stainless steel material is coated in high temperature paint.

Straight Flex Connectors - Braided

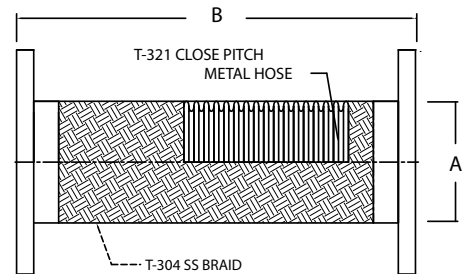
ANSI Flange: Fixed and Float

Pipe Size	Part Number	A	B	Weight
4	80-3912	4	16	15
5	80-3913	5	16	19
6	80-3914	6	18	28
8	80-3915	8	18	40
10	80-3916	10	20	69
12	80-3917	12	20	77



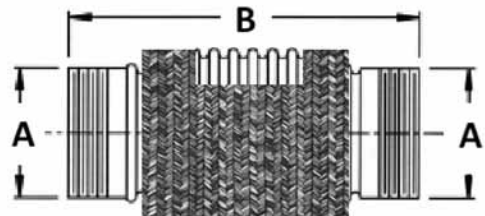
ANSI Flange: Both Fixed

Pipe Size	Part Number	A	B	Weight
4	80-4020	4	16	17
5	80-4021	5	16	19
6	80-4022	6	18	26
8	80-4023	8	18	39
10	80-4024	10	20	67
12	80-4025	12	20	78



Male NPT: Threaded Ends

Pipe Size	Part Number	A	B	Weight
2	80-4031	2	15	12
2.5	80-4032	2.5	15	14
3	80-4033	3	15	16
3.5	80-4034	3.5	15	17
4	80-4035	4	16	18
5	80-4036	5	16	24
6	80-4037	6	18	28
8	80-4038	8	18	48
10	80-4039	10	20	65
12	80-4040	12	20	82



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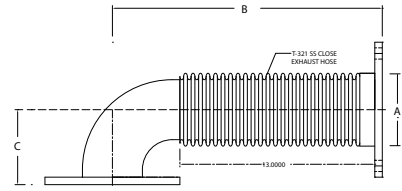
90° Elbow Flex Connectors

Flex connectors are typically used to connect a silencer to the exhaust outlet of an engine or compressor. They are designed for vibration and lateral deflection (offset). Compression of the connector will cause early failure. All assemblies are heli-arc welded to ensure that the base material is not undercut.

Flex is comprised of TYPE 321 Stainless Steel Bellows material. Flanged ends are made of 150# ASA. Male NPT connections are constructed of Schedule 40 Steel Pipe. All non-stainless steel material is coated in high temperature paint. Contact your Universal representative for 100% stainless steel wyes.

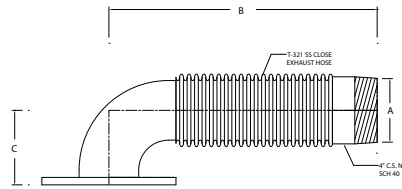
ANSI Flange Connections

Pipe Size	Part Number	A	B	C	Weight
4	80-3525	4	16	4.3	14.0
5	80-3526	5	16	5.38	17.0
6	80-3527	6	18	6.38	24.0



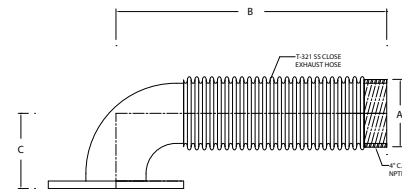
ANSI Flange and Male NPT Pipe End Connections

Pipe Size	Part Number	A	B	C	D	Weight
4	80-3545	4	18	5.00	3	14
5	80-3546	5	20	6.25	3	17
6	80-3547	6	22	8.25	3	24



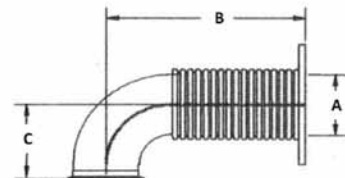
ANSI Flange and Female NPT Coupling Connections

Pipe Size	Part Number	A	B	C	D	Weight
4	80-3565	4	18	5.00	2	14
5	80-3566	5	20	6.25	2	18
6	80-3567	6	22	8.25	2	26



ANSI Flange and Machined Turbo Flange Connections

Pipe Size	Part Number	A	B	C	Weight
5	80-3575	5	18	6.63	15
6	80-3576	6	18	6.63	17
6	80-3577	6	20	9.47	18



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Wye connectors are used to connect the exhaust outlets or turbos of an engine into a single path. Each wye connector is designed for vibration dampening and to accommodate limited lateral offsets. All assemblies are heli-arc welded to ensure that the base material is not undercut. Flex is comprised of type 321 stainless steel Bellows material. Inlet flanged ends are A-36 plate steel floating, sized to Caterpillar's

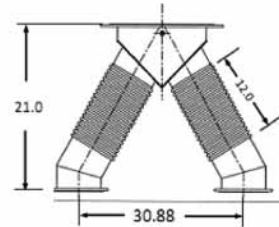
specs. Cat flanges may be substituted for ANSI flanges at no charge. Outlet flange is constructed of 125# ANSI Drilled A-36 plate steel and is floating. Tubing is constructed of 1010 Steel. All non-stainless steel material is coated in high temperature paint. Contact your Universal representative for 100% stainless steel wyes.

Wye Connectors - Cat® Engines

Wye Connections Cat5 3208 NA

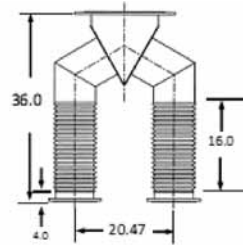
Part Number	Wye Inlet Size	Wye Outlet Size
80-3605	3	4
80-3606	3	5

• Comes standard with 3" Cat Flanged Inlets. 4" & 5" outlets use ANSI Floating Flanges



Wye Connections Cat 3508 B

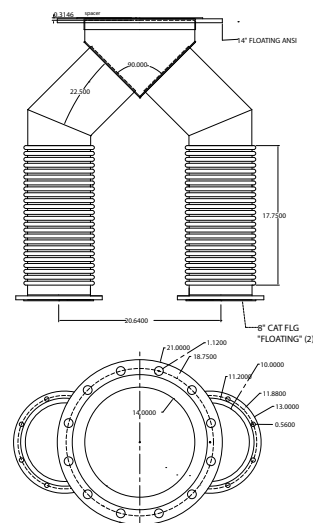
kW	Wye Part Number	CFM	Packpressure (H2O")	Wye Inlets Size	Wye Outlet Size
910	80-3615	7380	1.6	8	12
1000	80-3616	7935	1.7	8	12



Wye Connections Cat 3512 B-8

kW	Wye Part Number	CFM	Packpressure (H2O")	Wye Inlets Size	Wye Outlet Size
1275	80-3625	11265	3.7	8	14
1360	80-3626	11860	4.1	8	14
1360	80-3627	11860	3.7	8	16
1400	80-3628	12175	4.2	8	14
1400	80-3629	12175	3.8	8	16
1500	80-3630	12745	1.8	10	14
1500	80-3631	12745	1.6	10	16

• 8" Cat Flanged Inlets



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Wye Connectors - Cat® Engines

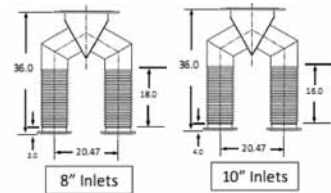
Wye connectors are used to connect the exhaust outlets or turbos of an engine into a single path. Each wye connector is designed for vibration dampening and to accommodate limited lateral offsets. All assemblies are heli-arc welded to ensure that the base material is not undercut. Flex is comprised of type 321 stainless steel Bellows material. Inlet flanged ends are A-36 plate steel floating, sized to Caterpillar's

specs. Cat flanges may be substituted for ANSI flanges at no charge. Outlet flange is constructed of 125# ANSI Drilled A-36 plate steel and is floating. Tubing is constructed of 1010 Steel. All non-stainless steel material is coated in high temperature paint. Contact your Universal representative for 100% stainless steel wyes.

Cat 3516B

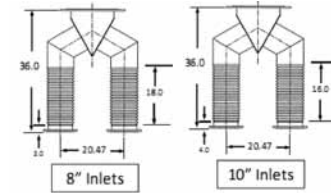
kW	Wye Part Number	CFM	Packpressure (H ₂ O")	Wye Inlets Size	Wye Outlet Size
1640	80-3645	14675	6.7	8	16
1640	80-3646	14675	2.6	10	16
1640	80-3647	14675	5.1	8	18
1640	80-3648	14675	2.3	10	18
1825	80-3649	15790	2.7	10	16
1825	80-3650	15790	2.5	10	18
2000	80-3651	17495	3.3	10	16

∴ 8" Cat Flanged Inlets



Cat 3516 Quad Turbo

kW	Wye Part Number	CFM	Packpressure (H ₂ O")	Wye Inlets Size	Wye Outlet Size
1400	80-3660	11271	3.6	8	14
1400	80-3661	11271	3.3	8	16
1500	80-3662	12708	1.8	10	14
1500	80-3663	12708	1.6	10	16
1750	80-3664	14700	2.2	10	16
1750	80-3665	14700	2.0	10	18



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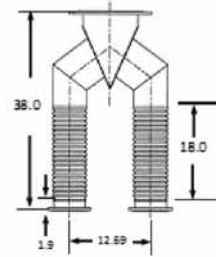
Cummins flanges may be substituted for ANSI flanges at no charge. Outlet flange is constructed of 125# ANSI Drilled A-36 plate steel and is floating. Tubing is constructed of 1010 Steel. All non-stainless steel material is coated in high temperature paint. Contact your Universal representative for 100% stainless steel wyes.

Wye Connectors- Cummins® Engines

Cummins VTA 28 G5

Gen. Set Model	Wye Part Number	CFM	Wye Inlets Size	Wye Outlet Size
450 DFGA	80-3675	3375/3650	5	8
500 DFGA	80-3676	4000/4300	5	8
600 DFGB	80-3677	4635	5	8
500 DFGB	80-3678	5040	5	10

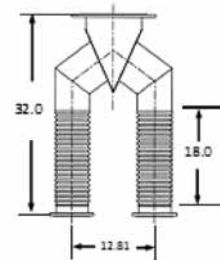
• ANSI Flanged Inlets



Cummins QST 30 G1 and G2

Gen Set Model	Wye Part Number	CFM	Wye Inlets Size	Wye Outlet Size
620 DFHA	80-3685	4225	6	8
620 DFHA	80-3686	4596	6	10
700 DFHA	80-3687	4693/5349	6	10
750 DFHA	80-3688	5546/6160	6	10
800 DFHB	80-3689	5917/6603	6	10

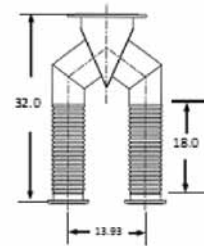
• Cummins Flanged Inlets



Cummins QST 30 63,64 and 65

Gen Set Model	Wye Part Number	CFM	Wye Inlets Size	Wye Outlet Size
900 DFHD	80-3695	6945	6	12
1000 DFHD	80-3696	7775	6	14

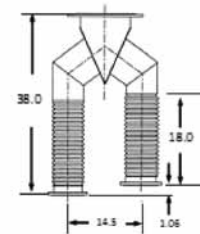
• Cummins Flanged Inlets



Cummins KTA 38 G3, G4 and G5

Gen Set Model	Wye Part Number	CFM	Wye Inlets Size	Wye Outlet Size
800DFJC	80-3705	5845/6345	6	10
900 DFJC	80-3706	7115/7645	6	12
880 DFJD	80-3707	6465	6	10
880 DFJD	80-3708	7005	6	12
1000 DFJD	80-3709	7715/8405	6	12

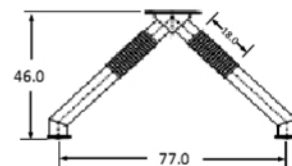
• Cummins Flanged Inlets



Cummins KTA 50-G2

Gen Set Model	Wye Part Number	CFM	Wye Inlets Size	Wye Outlet Size
1100 DFLB	80-3715	8230	6	12
1100 DFLB	80-3716	11345	6	14

• Cummins Flanged Inlets



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Wye Connectors- Cummins® Engines

Wye connectors are used to connect the exhaust outlets or turbos of an engine into a single path. Each wye connector is designed for vibration dampening and to accommodate limited lateral offsets. All assemblies are heli-arc welded to ensure that the base material is not undercut. Flex is comprised of type 321 stainless steel Bellows material. Inlet flanged ends are A-36 plate steel floating, sized to Cummins' specs.

Cummins flanges may be substituted for ANSI flanges at no charge. Outlet flange is constructed of 125# ANSI Drilled A-36 plate steel and is floating. Tubing is constructed of 1010 Steel. All non-stainless steel material is coated in high temperature paint. Contact your Universal representative for 100% stainless steel wyes.

Cummins KTA 50 G3, G4 and G9

Gen Set Model	Wye Part Number	CFM	Wye Inlets Size	Wye Outlet Size
1120 DFCL	80-3725	8965/9595	6	12
1250 DFCL	80-3726	8845/9620	6	12
1200 DFLD	80-3727	8965	6	12
1200 DFLD	80-3728	10165	6	14
1500 DFLE	80-3729	9600/10650	6	14

• Cummins Flanged Inlets

Cummins KTTA 50 G2

Gen Set Model	Wye Part Number	CFM	Wye Inlets Size	Wye Outlet Size
1280 DFMB	80-3735	6745	8	10
1280 DFMB	80-3736	8690	8	12
1500 DFMB	80-3737	8330	8	12
1500 DFMB	80-3738	10505	8	14

• ANSI Flanged Inlets

Cummins QSK 60 DQKB DQKC

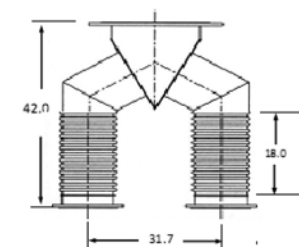
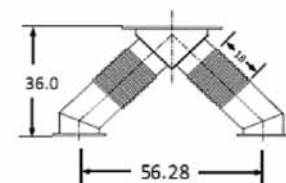
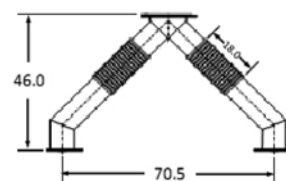
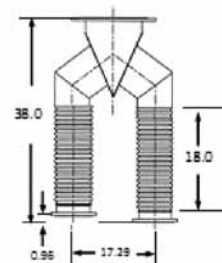
Kw Rating	Wye Part Number	CFM	Backpressure (H ₂ O")	Wye Inlets Size	Wye Outlet Size
1600	80-3745	11950	3.2	10	14
1800	80-3746	13050	3.7	10	14
1600	80-3747	11950	2.5	10	16
1800	80-3748	13050	2.9	10	16
1800	80-3749	13400	3.1	10	16
2000	80-3750	15250	4.9	10	16
1600	80-3751	11950	1.7	10	18
1800	80-3752	13050	2.1	10	18
1800	80-3753	13400	2.4	10	18
2000	80-3754	15250	3.2	10	18
1800	80-3755	13400	1.7	10	20
2000	80-3756	15250	2.3	10	20

• ANSI Flanged Inlets

Cummins QSK 78 2700 DQLA

60 hz	Wye Part Number	CFM	Backpressure (H ₂ O")	Wye Inlets Size	Wye Outlet Size
Standby	80-3765	18465	2.2	12	18
Standby	80-3766	18465	2.1	12	20
Standby	80-3767	18465	2.00	12	22
Standby	80-3768	18465	1.96	12	24
Prime	80-3769	17225	2.12	12	18
Prime	80-3770	17225	2.02	12	20
Prime	80-3771	17225	1.96	12	22
Prime	80-3772	17225	1.92	12	24

• ANSI Flanged Inlets



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Need something similar with slight modifications?

Mark up the outline drawing above and fax to (608) 873-7298 or scan and email to info@universalAET.com

Wye connectors are used to connect the exhaust outlets or turbos of an engine into a single path. Each wye connector is designed for vibration dampening and to accommodate limited lateral offsets. All assemblies are heli-arc welded to ensure that the base material is not undercut. Flex is comprised of type 321 stainless steel Bellows material. Inlet flanged ends are A-36 plate steel floating, sized to

Detroit/MTU specs. Detroit/MTU flanges may be substituted for ANSI flanges at no charge. Outlet flange is constructed of 125# ANSI Drilled A-36 plate steel and is floating. Tubing is constructed of 1010 Steel. All non-stainless steel material is coated in high temperature paint. Contact your Universal representative for 100% stainless steel wyes.

Wye Connectors - Detroit Diesel/MTU® Engines

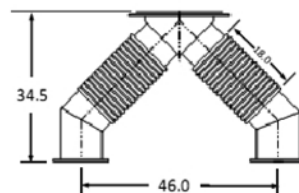
Wye Assembly

Part Number	Size	Engine Model
909910Y	5 x 5 x 10	Detroit 12V71TA
909911Y	5 x 5 x 8	Detroit 12V92T
909912Y	5 x 5 x 10	Detroit 16V71T
909913Y	5 x 5 x 8	Detroit 16V92T
909914Y	8 x 8 x 12	Detroit 12V149T
909915Y	8 x 8 x 14	Detroit 12V149TIB
909917Y	10 x 10 x 14	Detroit 16V149TIB
909918Y	10 x 10 x 14	Detroit 24V71TA
909919Y	8 x 10 x 18	Detroit 20V149TI

Detroit 16V 149TIB

kW	Wye Part Number	CFM	Packpressure (H ₂ O")	Wye Inlets Size	Wye Outlet Size
1500	80-3780	14980	1.5	10	16
1500	80-3781	14980	1.4	10	18
1600	80-3782	15400	2.7	10	16
1600	80-3783	15400	2.4	10	18

✦ Detroit Flanged Inlets



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Wye Connectors - Kohler® Engines

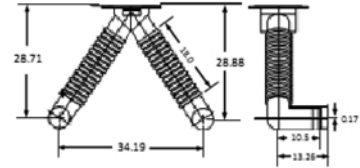
Wye connectors are used to connect the exhaust outlets or turbos of an engine into a single path. Each wye connector is designed for vibration dampening and to accommodate limited lateral offsets. All assemblies are heli-arc welded to ensure that the base material is not undercut. Flex is comprised of type 321 stainless steel Bellows material. ROZD models use 20° flared flanges for inlets. Other Kohler models use inlet flanged ends, constructed

of A-36 plate steel floating and sized to Detroit/Kohler specs. Detroit/Kohler flanges may be substituted for ANSI flanges at no charge. Outlet flange is constructed of 125# ANSI Drilled A-36 plate steel and is floating. Tubing is constructed of 1010 Steel. All non-stainless steel material is coated in high temperature paint. Contact your Universal representative for 100% stainless steel wyes.

450 ROE2D & 500 ROZD

Engine	Part Number	Inlet Size	Outlet Size
8V-2000	80-3790	5	8
	80-3791	5	10
	80-3792	5	12

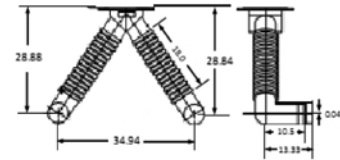
⚙️ 20° flared inlet flanges, floating ANSI outlet flange



600 & 750 ROZD

Engine	Part Number	Inlet Size	Outlet Size
12V-2000	80-3800	5	8
	80-3801	5	10
	80-3802	5	12
	80-3803	6	8

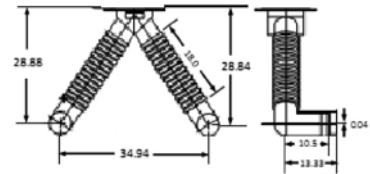
⚙️ 20° flared inlet flanges, floating ANSI outlet flange



800 ROZD

Engine	Part Number	Inlet Size	Outlet Size
16V-2000	80-3810	5	8
	80-3811	5	10
	80-3812	5	12
	80-3813	5	14
	80-3814	6	8
	80-3815	6	10
	80-3816	6	12
	80-3817	6	14
	80-3804	6	10
	80-3805	6	12

⚙️ 20° flared inlet flanges, floating ANSI outlet flange



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Wye connectors are used to connect the exhaust outlets or turbos of an engine into a single path. Each wye connector is designed for vibration dampening and to accommodate limited lateral offsets. All assemblies are heli-arc welded to ensure that the base material is not undercut. Flex is comprised of type 321 stainless steel Bellows material. ROZD models use 20° flared flanges for inlets. Other Kohler models use inlet flanged ends, constructed

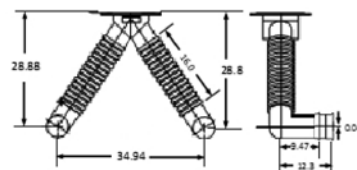
of A-36 plate steel floating and sized to Detroit/Kohler specs. Detroit/Kohler flanges may be substituted for ANSI flanges at no charge. Outlet flange is constructed of 125# ANSI Drilled A-36 plate steel and is floating. Tubing is constructed of 1010 Steel. All non-stainless steel material is coated in high temperature paint. Contact your Universal representative for 100% stainless steel wyes.

Wye Connectors - Kohler® Engines

900 & 1000 ROZD

Engine	Part Number	Inlet Size	Outlet Size
16V-2000	80-3825	6	8
	80-3826	6	10
	80-3827	6	12
	80-3828	6	14
	80-3829	6	16

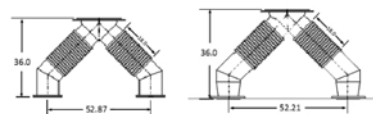
• Flared inlet flanges



650-1000 DSEB - Detroit Diesel 12V2000 and 16V2000

kW	Wye Part Number	CFM	Packpressure (H2O")	SPREAD	Wye Inlet Size	Wye Outlet Size
650	80-3835	5934	6.4	52.87"	6	10
650	80-3836	5934	1.9	52.87"	8	12
750	80-3837	6568	2.3	52.87"	8	12
900	80-3838	8051	3.2	52.21"	8	12
900	80-3839	8051	2.3	52.21"	8	14
1000	80-3840	8475	3.5	52.21"	8	12
1000	80-3841	8475	2.5	52.21"	8	14

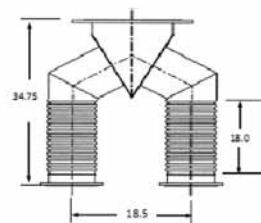
• Detroit/Kohler 6" floating inlet flanges



12V-4000 1250 to 1500 KW includes World 1350 & 1500 KW

Part Number	Inlet Size	Outlet Size
80-3850	10	12
80-3851	10	14

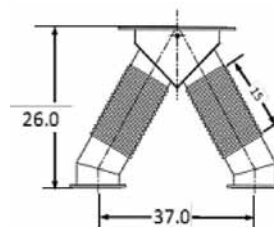
• Detroit 10" floating inlet flanges and ANSI outlet



16V-4000 2000 KW includes World 1820 KW

Part Number	Inlet Size	Outlet Size
80-3855	10	14
80-3856	10	16
80-3857	10	18

• Detroit 10" floating inlet flanges and ANSI outlet



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Need something similar with slight modifications?

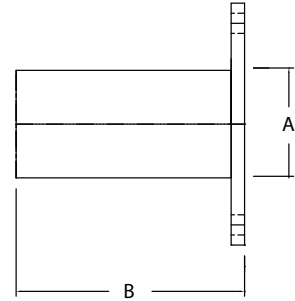
Mark up the outline drawing above and fax to (608) 873-7298 or scan and email to info@universalAET.com

Straight Outlet Extensions

Outlet extensions are used downstream from the silencer to direct the exhaust stream and dispersion pattern. Tubing is constructed of 16 Gauge Mild Steel. All assemblies are heli-arc welded to ensure that the base material is not undercut. All non-stainless steel material is coated in high temperature paint.

Straight Cut, no Bird Screen

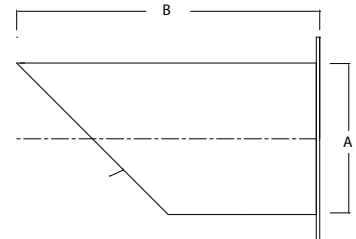
Size	Part Number	B	A	Weight
4	80-3900	8.5	4	14
5	80-3901	10.5	5	14.5
6	80-3902	12.5	6	22
8	80-3903	16.5	8	28
10	80-3904	20.6	10	51
12	80-3905	24.6	12	71
14	80-3906	28.6	14	84
16	80-3907	28.5	16	91
18	80-3908	36	18	128
20	80-3909	40	20	158
22	80-3910	44	22	191



- Sizes 4-12" – ANSI Light Flange Connection
- Sizes 14-22" – 125/150# ANSI Flange Connection

45° Cut with Bird Screen

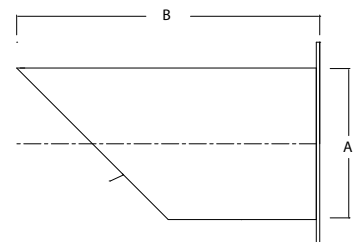
Size	Part Number	B	A	Weight
4	40340K	8.5	4	13
5	40350K	10.5	5	13.35
6	40360K	12.5	6	20
8	40380K	16.5	8	26
10	40382K	20.16	10	48
12	40384K	24.6	12	68
14	40386K	28.6	14	80
16	40388K	28.5	16	87
18	80-3865	36	18	124
20	80-3866	40	20	153
22	80-3867	44	22	185



- Sizes 4-12" – ANSI Light Flange Connection
- Sizes 14-22" – 125/150# ANSI Flange Connection

45° Cut End, no Bird Screen

Size	Part Number	B	A	Weight
4	80-3875	8.5	4	13
5	80-3876	10.5	5	13.35
6	80-3877	12.5	6	20
8	80-3878	16.5	8	26
10	80-3879	20.16	10	48
12	80-3880	24.6	12	68
14	80-3881	28.6	14	80
16	80-3882	28.5	16	87
18	80-3883	36	18	124
20	80-3884	40	20	153
22	80-3885	44	22	185



- Sizes 4-12" – ANSI Light Flange Connection
- Sizes 14-22" – 125/150# ANSI Flange Connection

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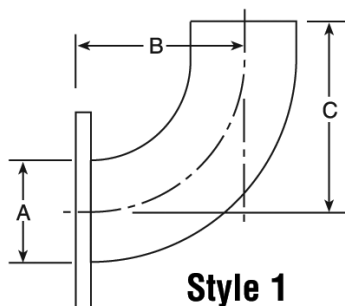
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Outlet extensions are used downstream from the silencer to direct the exhaust stream and dispersion pattern. Tubing is constructed of 16 Gauge Mild Steel. All assemblies are heli-arc welded to ensure that the base material is not undercut. All non-stainless steel material is coated in high temperature paint.

90° Outlet Extensions

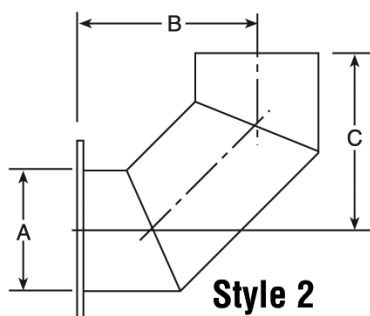


Style 1

Formed 90° Outlet Elbow, with Bird Screen

Size	Part Number (Carbon Steel)	Part Number (304SS)	A	B	C	Weight
4	40640K	80-4091	4	6.5	7.5	14
5	40650K	80-4092	5	8.5	9.0	16
6	40660K	80-4093	6	12.5	12.0	20

∴ ANSI Light Flange Connection



Style 2

3-PC Mitered 90° Outlet Elbow, with Bird Screen

Size	Part Number (Carbon Steel)	Part Number (304SS)	A	B	C	Weight
8	40680K	80-4094	8.69	12.0	12.0	35
10	40682K	80-4095	10.81	14.0	14.0	55
12	40684K	80-4096	12.81	16.0	16.0	74
14	80-3868	80-3869	14.0	14.0	14.0	82
16	80-3870	80-3871	16.0	16.0	16.0	90
18	80-3872	80-3873	18.0	18.0	18.0	100
20	80-3918	80-3919	20.0	20.0	20.0	112

∴ Sizes 8"–12" - ANSI Light Flange Connection

∴ Sizes 14"–22" - 125/150# ANSI Flange Connection

∴ All dimensions are in inches unless otherwise stated.
All weights are in lbs and are approximate.

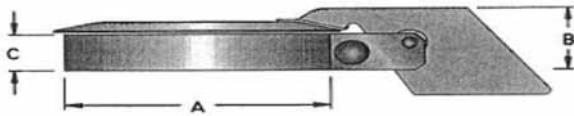
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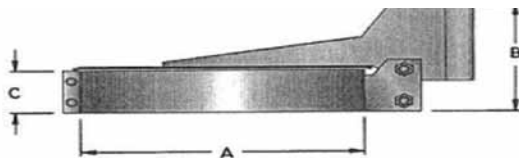
Raincaps

All non-stainless steel material is coated in high temperature paint.



Raincaps: Lightweight

Size	Type	Part Number (Carbon Steel)	Part Number (304SS)	A	B	C	Weight
2	Tube	89420A	80-3501	2.06	1.63	0.88	1
2.5	Tube	89425A	80-2531	2.56	1.63	0.88	1
3	Tube	89430A	80-3513	3.06	1.63	0.88	1
3.5	Tube	89435A	80-2849	3.56	1.63	0.88	1.5
4	Tube	89440A	80-3515	4.06	1.63	0.88	2
4	Pipe	80-3531	80-3502	4.56	1.63	0.88	1.5
5	Tube	89450A	80-3516	5.06	1.63	0.88	2
5	Pipe	80-3532	80-3503	5.63	1.63	0.88	2
6	Tube	89460A	80-3517	6.06	1.63	0.88	5.5
6	Pipe	80-3533	80-3504	6.69	1.63	0.88	5.5



Raincaps: Standard Heavy Duty

Size	Type	Part Number (Carbon Steel)	Part Number (304SS)	A	B	C	Weight
8	Tube	89480A	80-3518	8.06	7.13	2.63	8
8	Tube	89483A	N/A	8.4	7.13	2.63	8
8	Pipe	80-3534	80-3514	8.69	7.13	2.63	8
10	Tube	89482A	80-3519	10.06	7.13	2.63	11
10	Tube	89495A	N/A	10.4	7.13	2.63	11
10	Pipe	80-3535	80-3511	10.81	7.13	2.63	11
12	Tube	89484A	80-3520	12.06	7.13	2.63	14
12	Tube	89498A	N/A	12.4	7.13	2.63	14
12	Pipe	80-3536	80-3500	12.81	7.13	2.63	14
14	Pipe	89486A	80-2306	14.06	7.13	2.63	22
16	Pipe	89488A	80-2475	16.06	7.13	2.63	26
18	Pipe	89492A	80-2473	18.06	7.13	2.63	30
20	Pipe	89494A	80-3512	20.06	8.63	4.00	34
22	Pipe	89496A	80-2474	22.06	8.63	4.00	36

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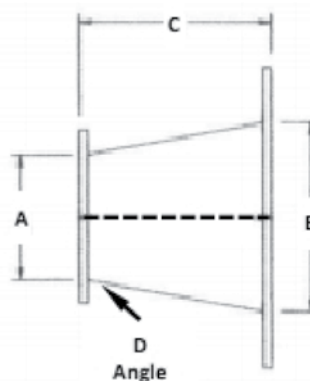
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Outlet extensions are used downstream from the silencer to direct the exhaust stream and dispersion pattern. Tubing is constructed of 16 Gauge Mild Steel. All assemblies are heli-arc welded to ensure that the base material is not undercut. All non-stainless steel material is coated in high temperature paint.

Connectors

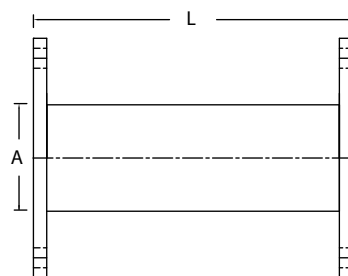
Expansion Connectors - ANSI Flange Both Ends

Pipe Size	Part Number	A	B	C	D	Weight
6	80-3944	6	8	10	9.5	24
6	80-3945	6	10	12	18.8	36
8	80-3946	8	10	12	9.5	48
8	80-3947	8	12	12	18.8	58
10	80-3948	10	12	12	9.5	72
10	80-3949	10	14	12	18.8	84
12	80-3950	12	14	12	9.5	101
12	80-3951	12	16	12	18.8	115
14	80-3952	14	16	14	8.2	157
14	80-3953	14	18	14	16	176
16	80-3954	16	18	16	7.2	230
16	80-3955	16	20	16	14.2	256
18	80-3956	18	20	16	7.2	288
18	80-3957	18	22	16	14.3	317
20	80-3958	20	22	16	7.2	352
20	80-3959	20	24	16	14.3	384
22	80-3960	22	24	16	7.2	422
22	80-3961	22	26	16	14.3	458



Straight Tube ANSI Flanges - Both Ends

Pipe Size	Part Number Square End	A	L	Weight
4	80-3920	4.50	12	10
5	80-3921	5.56	15	12
6	80-3922	6.63	18	19
8	80-3923	8.63	18	31
10	80-3924	10.75	20	58
12	80-3925	12.75	24	69
14	80-3926	14.00	28	90
16	80-3927	16.00	32	120
18	80-3928	18.00	36	151
20	80-3929	20.00	40	186
22	80-3930	22.00	44	225



- Sizes 4"-12" – ANSI Light Flange Connection
- Sizes 14"-22" – 125/150# ANSI Flange Connection
- Custom sizes are available

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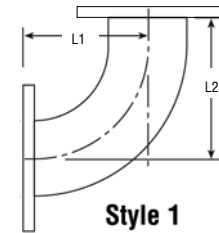
Mark up the outline drawing above and fax to (608) 873-7298 or scan and email to info@universalAET.com

Connectors

All non-stainless steel material is coated in high temperature paint.

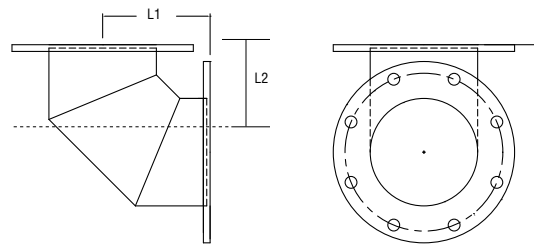
90° Formed Tube Elbows - ANSI Flange Both Ends

Tube Size	Part Number	L1	L2	Weight
4	80-4055	8	8	16
5	80-4056	10	10	20
6	80-4057	12	12	30



3-PC Mitered 90° Elbows - ANSI Flange Both Ends

Pipe Size	Part Number	L1	L2	Weight
8	80-4065	8	8	17
10	80-4066	10	10	26
12	80-4067	12	12	35
14	80-4068	14	14	55
16	80-4069	16	16	74
18	80-4070	18	18	92
20	80-4071	20	20	118
22	80-4072	22	22	142



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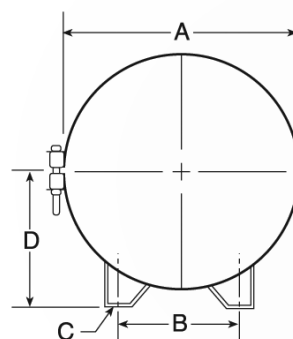
Attachment brackets and clamps are used to attach the silencer to a substructure such as a wall or enclosure cabinet. Brackets are constructed of Mild Steel. Style 1, single piece, is recommended on smaller diameter silencers (<16"), and Style 2 is recommended on larger diameter silencers (>14") for ease of installation.

Silencer Attachment Brackets

Silencer Attachment Brackets, Style 1

Inside Diameter A	Part Number (Carbon Steel)	Part Number (304SS)	B	Bolt Hole C	D	Band Width F	Weight
5	80-3975	80-3998	2.5	0.313	3.0	1.00	0.7
6	80-3977	80-4000	3	0.313	3.6	1.25	0.8
8	80-3980	80-4001	4	0.313	4.8	1.50	1.5
10	Q27240	80-4002	5	0.375	6.0	2.00	1.7
12	Q27241	80-4003	5	0.375	7.2	2.50	1.8
14	Q27242	80-4004	6	0.375	8.4	3.00	2.0

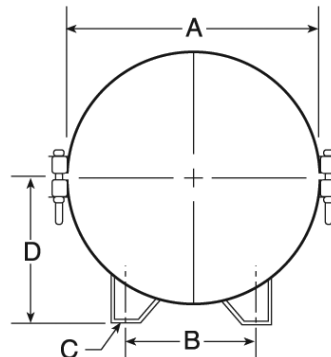
•• Specifications are subject to change without notice, all dimensions are in inches. Sold in quantities of one.



Silencer Attachment Brackets, Style 2

Inside Diameter A	Part Number (Carbon Steel)	Part Number (304SS)	B	Bolt Hole C	D	Band Width F	Weight
16	Q27243	80-3963	6	.5	8.9	2	5.5
18	Q27244	80-3964	9	.5	11.12	2	6
20	80-3988	80-3965	10	.5	12.06	2.5	9.5
22	Q27245	80-3966	11	.5	13.63	2.5	10.5
24	80-3990	80-3967	12	.63	14.56	2.5	11.5
26	Q27246	80-3968	13	.63	15.44	3	17.5
30	Q27247	80-3970	15	.63	17.25	4	27
36	Q27248	80-3972	18	.63	20.12	4	33
42	80-3997	80-3974	21	.75	23.38	4	44
48	80-3999	80-3976	24	1	26.5	4	63

•• Split design allows for easier installation of larger silencers. Sold in quantities of one.



•• All dimensions are in inches unless otherwise stated.
All weights are in lbs and are approximate.

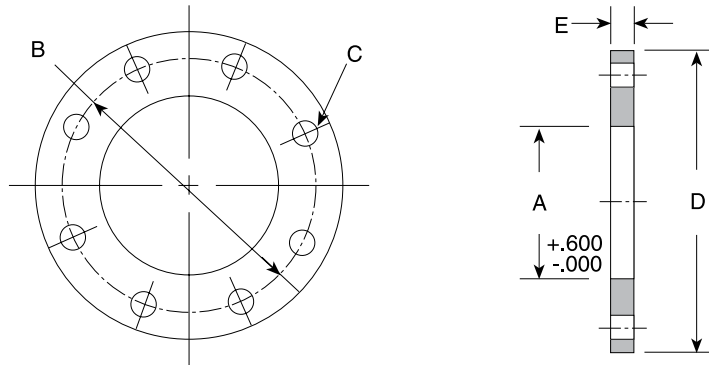
•• All information correct at time of printing. Universal has a policy of continuous improvement. Therefore we reserve the right to change the specifications of these silencers without notice.

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Companion Flange Kits

Field repairs, retrofits and custom projects sometimes require flanges to be installed on a bare pipe end. Universal offers weld-on flanges. Each flange kit includes a flange, gasket, and bolt and nut for each hole.



Companion Flange

Pipe Size	Part Number	A Inner Diameter	B Bolt Circle Diameter	C Hole Diameter	D Outer Diameter	E Flange Thickness	# of Holes	Weight
4	40440K	4.56	7.50	0.750	9.00	0.375	8	8
5	40450K	5.63	8.50	0.875	10.00	0.375	8	10
6	40460K	6.69	9.50	0.875	11.00	0.500	8	13
8	40480K	8.75	11.75	0.875	13.50	0.500	8	16
10	40482K	10.88	14.25	1.000	16.00	0.500	12	25
12	40484K	12.88	17.00	1.000	19.00	0.500	12	32
14	40486K	14.19	18.75	1.125	21.00	0.500	12	39
16	40488K	16.19	21.25	1.125	23.50	0.500	16	49
18	40499K	18.19	22.75	1.250	25.00	0.500	16	57
20	40421K	20.19	25.00	1.250	27.50	0.500	20	69
22	40422K	22.19	27.25	1.375	29.50	0.500	20	110

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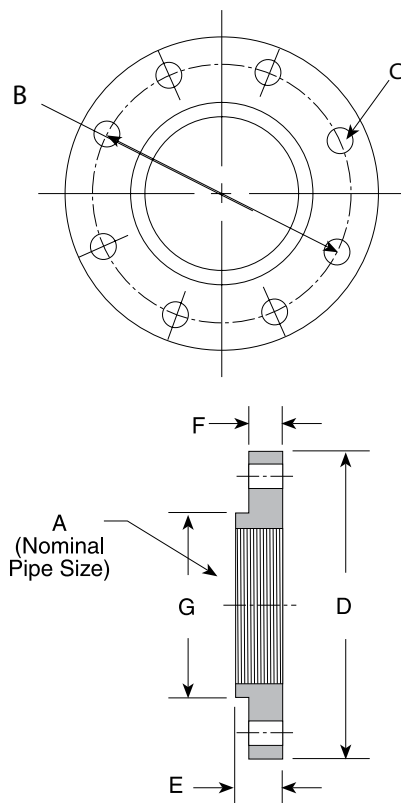
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Field repairs, retrofits and custom projects sometimes require flanges to be installed on a bare pipe end. Universal offers weld-on flanges. Each flange kit includes a flange, gasket, and bolt and nut for each hole.

Companion Flange Kits



Dual Mounting Flange Kits (Threaded)

Part Number	A	B	C	D	E	F	G	# of Holes	Weight
40540K	4	7.50	0.750	9.0	1.31	0.94	5.31	8	30
40550K	5	8.50	0.875	10.0	1.44	0.94	6.44	8	35
40560K	6	9.50	0.875	11.0	1.56	1.00	7.56	8	54
40580K	8	11.75	0.875	13.5	1.75	1.12	9.75	8	67

- A "kit" consists of a mounting flange, a gasket, and one capscrew and nut for each mounting hole. Available in dual or single flange kits. Listed part number for dual flange kits. Please call for single flange kits.

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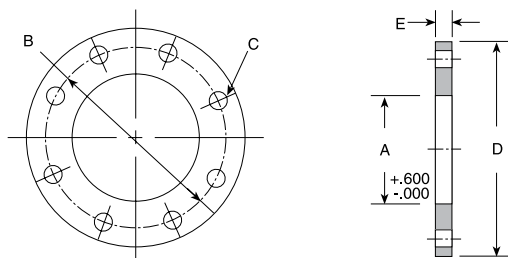
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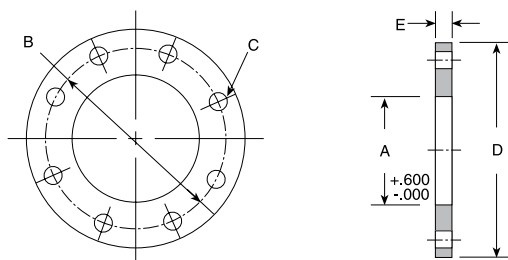
Reduction/Oversize Flange Kits

Frequently the engine's flange size is larger than the required silencer's connection. Rather than use a larger silencer, it is usually more economical to use an oversize reducing flange on the silencer. Universal offers single reduction and double reduction ANSI Flange.



Reduction Flange: Single

Pipe Size Reduction	Part Number	A	B	C	D	E	# of Holes	Weight
5 x 4	82-1239	4.56	8.50	0.875	10.00	0.375	8	6
6 x 5	82-1240	5.63	9.50	0.875	11.00	0.500	8	9
8 x 6	82-1241	6.69	11.75	0.875	13.50	0.500	8	14.5
10 x 8	82-1242	8.75	14.25	1.000	16.00	0.500	12	17
12 x 10	82-1243	10.88	17.00	1.000	19.00	0.500	12	26
14 x 12	82-1244	12.88	18.75	1.125	21.00	0.500	12	29
16 x 14	82-1245	14.19	21.25	1.125	23.50	0.500	16	37
18 x 16	82-1246	16.19	22.75	1.250	25.00	0.500	16	38
20 x 18	82-1247	18.19	25.00	1.250	27.50	0.500	20	44
22 x 20	82-1248	20.19	27.25	1.375	29.50	0.500	20	47
24 x 22	82-1249	22.19	29.50	1.375	32.00	0.500	20	55



Reduction Flange: Double

Pipe Size Reduction	Part Number	A	B	C	D	E	# of Holes	Weight
6 x 4	82-1343	4.56	9.50	0.875	11.00	0.500	8	10.5
8 x 5	82-1344	5.63	11.75	0.875	13.50	0.500	8	16
10 x 6	82-1345	6.69	14.25	1.000	16.00	0.500	12	22
12 x 8	82-1346	8.75	17.00	1.000	19.00	0.500	12	30
14 x 10	82-1347	10.88	18.75	1.125	21.00	0.500	12	34
16 x 12	82-1348	12.88	21.25	1.125	23.50	0.500	16	41
18 x 14	82-1349	14.19	22.75	1.250	25.00	0.500	16	44
20 x 16	82-1350	16.19	25.00	1.250	27.50	0.500	20	52
22 x 18	82-1351	18.19	27.25	1.375	29.50	0.500	20	56
24 x 20	82-1352	20.19	29.50	1.375	32.00	0.500	20	64
26 x 22	82-1353	22.19	31.75	1.375	34.25	0.750	24	106

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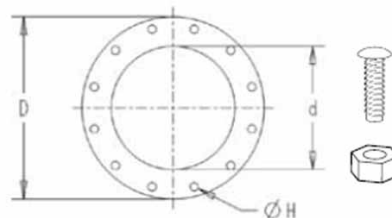
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Each Nut, Bolt and Gasket kit contains a ring gasket and a bolt and nut for each hole.

Nut, Bolt and Gasket Kits - ANSI

Nut, Bolt and Gasket Kits - ANSI

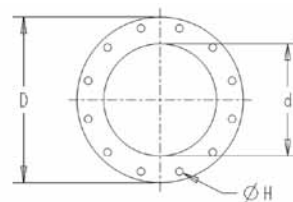
Pipe Size	Part Number	d	D	# of Holes	H	Thickness	Weight
4	Q347458	4.50	6.88	8	0.750	.060"	4
5	Q347459	5.56	7.75	8	0.875	.060"	4.25
6	Q347460	6.63	8.75	8	0.875	.060"	4.5
8	Q347461	8.63	11.00	8	0.875	.060"	5
10	Q347462	10.75	13.38	12	1.000	.060"	8
12	Q347463	12.75	16.13	12	1.000	.060"	11
14	Q347464	14.00	17.75	12	1.125	.060"	14
16	Q347465	16.00	20.25	16	1.125	.060"	19
18	Q347466	18.00	21.63	16	1.250	.120"	26
20	Q347467	20.00	23.88	20	1.250	.120"	30
22	Q347468	22.00	26.00	20	1.375	.120"	34



Gaskets are made from metal graphite and fiber material for durability. Gaskets are rated to 1400°F (760°C).

Full Face Gaskets

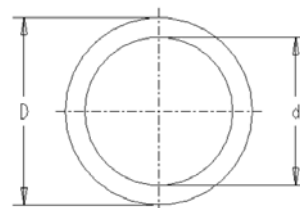
Pipe Size	Part Number	d	D	# of Holes	H	Thickness	Weight
4	903278	4.50	9.00	8	0.750	.060"	.3
5	903279	5.56	10.00	8	0.875	.060"	.3
6	903280	6.63	11.00	8	0.875	.060"	.3
8	903281	8.63	13.50	8	0.875	.060"	.3
10	903282	10.75	16.00	12	1.000	.060"	.3
12	903283	12.75	19.00	12	1.000	.060"	.6
14	903284	14.00	21.00	12	1.125	.060"	.6
16	903285	16.00	23.50	16	1.125	.060"	.6
18	903286	18.00	25.00	16	1.250	.120"	.6
20	903287	20.00	27.50	20	1.250	.120"	.6
22	903288	22.00	29.50	20	1.375	.120"	.6



Gaskets are made from metal graphite and fiber material for durability. Gaskets are rated to 1400°F (760°C).

Ring Gaskets

Pipe Size	Part Number	d	D	# of Holes	H	Thickness	Weight
4	Q04166	4.50	6.88	N/A	N/A	.060"	.25
5	Q04167	5.56	7.75	N/A	N/A	.060"	.25
6	Q04168	6.63	8.75	N/A	N/A	.060"	.25
8	Q04169	8.63	11.00	N/A	N/A	.060"	.25
10	Q04170	10.75	13.38	N/A	N/A	.060"	.25
12	Q04171	12.75	16.13	N/A	N/A	.060"	.5
14	Q04172	14.00	17.75	N/A	N/A	.060"	.5
16	Q79468	16.00	20.25	N/A	N/A	.060"	.5
18	Q79469	18.00	21.63	N/A	N/A	.120"	.5
20	Q79470	20.00	23.88	N/A	N/A	.120"	.5
22	Q79471	22.00	26.00	N/A	N/A	.120"	.5



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Nut, Bolt and Gasket Kits

Each Nut, Bolt and Gasket kit contains a ring gasket and a bolt and nut for each hole.



- ∴ Gaskets fabricated from reinforced MICA, rated for 1650°F
- ∴ Gaskets are full faced with drilled bolt holes
- ∴ Bolts fabricated from T-316SS
- ∴ Kit consists of (1) gasket and (1) set of nuts and bolts

Nut, Bolt and Gasket Kits - Cat Engines

Inlet Size (in)	Part Number	Bolt Length (in)
4	85-1594	2
5	85-1595	2
6	85-1596	2
8	85-1597	2
10	85-1598	2
12	85-1599	2
14	85-1600	2
16	85-1601	2

Nut, Bolt and Gasket Kits - Cummins Engines

Inlet Size (in)	Part Number	Bolt Length (in)
5	85-1574	2
6	85-1575	2

Nut, Bolt and Gasket Kits - MTU/Detroit Diesel Engines

Inlet Size (in)	Part Number	Bolt Length (in)
8	85-1580	2
10	85-1581	2

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Clamps

U-Bolt Saddle Clamps

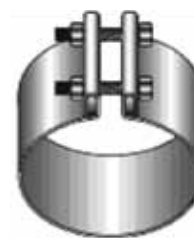
Size	Fits O.D.	Part No.
2" tube	2.00	80-4393
2" pipe	2.38	80-4394
2.5" tube	2.50	80-4395
2.5" pipe	2.88	80-4396
3" tube	3.00	80-4397
3" pipe	3.50	80-4398
3.5" tube	3.50	80-4399
3.5" pipe	4.00	80-4400
4" tube	4.00	80-4401
4" pipe	4.50	80-4402
5" tube	5.00	80-4403
5" pipe	5.56	80-4404
6" tube	6.00	80-4405



•• Zinc Plated U-Bolt Saddle Clamps

Cuff Band Clamps - 3" Wide, Sealing Only

Size	Fits O.D.	Part No.
1.5" tube	1.50	80-4310
2" tube	2.00	80-4311
2.5" tube	2.50	80-4312
3" tube	3.00	80-4313
3" pipe	3.50	80-4314
3.5" tube	3.50	80-4315
3.5" pipe	4.00	80-4316
4" tube	4.00	80-4317
5" tube	5.00	80-4318
6" tube	6.00	80-4319
8" tube	8.00	80-4320
10" tube	10.00	80-4321
12" tube	12.00	80-4322



•• 3" Wide - Sealing Only

•• Stretches over joint for sealing purposes only

•• Constructed of Stainless Steel Material

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Clamps

Cuff Band Clamps - 2.5" Wide

Size	Fits O.D.	Part No.
3" pipe	3.50	80-4332
3.5" pipe	4.00	80-4334
4" pipe	4.50	80-4336
5" tube	5.00	80-4337
5" pipe	5.56	80-4338
6" tube	6.00	80-4339
6" pipe	6.63	80-4340
8" tube	8.00	80-4341
8" pipe	8.63	80-4342
10" tube	10.00	80-4343
10" pipe	10.75	80-4344
12" tube	12.00	80-4345
12" pipe	12.75	80-4346
14" pipe	14.00	80-4347
16" pipe	16.00	80-4348
18" pipe	18.00	80-4349
20" pipe	20.00	80-4350
22" pipe	22.00	80-4351
24" pipe	24.00	80-4352



∴ 12 Guage T-304 stainless steel construction



V-Band Clamps

Size	A	B	C	D	E	F	Max Flg.	Part Number
4"	40°	4.81	.207	.88	.28	.080	4.63	80-4262
5"	40°	5.43	.262	.75	.14	.050	5.15	80-4406
5"	40°	5.88	.400	.88	.28	.050	5.73	80-4018
5"	40°	5.86	.293	1.13	.30	.080	5.80	80-4407

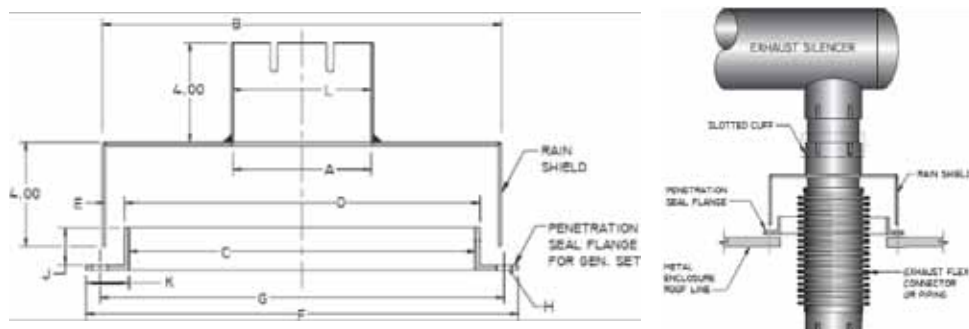
∴ Stainless steel construction

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Enclosure Rain Shield Kits - Cuff



Enclosure Rain Shield Kit for Cuff

Flange Size	Part Number	A (I.D.) Cover	B	C (I.D.) Base	D	E	F	G D.B.C.	H Hole Diameter	I # of Holes	J	K	L Cuff I.D.
2" TUBE	80-4282	2.06	4.00	3.06	3.34	0.50	5.06	4.31	0.281	6	0.88	1.00	2.040
2" PIPE	80-4283	2.44	4.00	3.06	3.34	0.50	5.06	4.31	0.281	6	0.88	1.00	2.415
2.5" TUBE	80-4284	2.56	4.00	3.06	3.34	0.50	5.06	4.31	0.281	6	0.88	1.00	2.540
2.5" PIPE	80-4285	2.94	5.00	4.06	4.34	0.50	6.06	5.31	0.281	6	0.94	1.00	2.915
3" TUBE	80-4286	3.06	5.00	4.06	4.34	0.50	6.06	5.31	0.281	6	0.94	1.00	3.040
3" PIPE	80-4287	3.56	5.00	4.06	4.34	0.50	6.06	5.31	0.281	6	0.94	1.00	3.540
4" TUBE	80-4288	4.06	6.00	5.06	5.34	0.50	7.06	6.31	0.281	6	1.00	1.00	4.040
4" PIPE	80-4289	4.56	6.00	5.06	5.34	0.50	7.06	6.31	0.281	6	1.00	1.00	4.540
5" TUBE	80-4353	5.06	8.63	6.09	6.38	0.50	8.09	7.31	0.281	6	1.00	1.00	5.040
5" PIPE	80-4290	5.62	8.63	6.09	6.38	0.50	8.09	7.31	0.281	6	1.00	1.00	5.603
6" TUBE	80-4354	6.06	8.63	7.13	7.41	0.50	9.63	8.50	0.38	6	1.00	1.13	6.040
6" PIPE	80-4291	6.69	8.63	7.13	7.41	0.50	9.63	8.50	0.38	6	1.00	1.13	6.665
8" TUBE	80-4355	8.06	10.63	9.13	9.41	0.50	11.63	10.63	0.44	6	1.13	1.25	8.060
8" PIPE	80-4292	8.69	10.63	9.13	9.41	0.50	11.63	10.63	0.44	6	1.13	1.25	8.686
10" TUBE	80-4356	10.06	12.63	11.13	11.41	0.50	13.38	12.75	0.44	6	1.25	1.13	10.060
10" PIPE	80-4293	10.81	12.63	11.13	11.41	0.50	13.38	12.75	0.44	6	1.25	1.13	10.810
12" TUBE	80-4357	12.06	14.63	13.13	13.41	0.50	16.13	15.00	0.44	6	1.50	1.50	12.060
12" PIPE	80-4294	12.81	14.63	13.13	13.41	0.50	16.13	15.00	0.44	8	1.50	1.50	12.810
14" TUBE	80-4295	14.06	16.00	15.13	15.50	0.50	18.13	17.00	0.44	8	1.50	1.50	14.060

- All steel components are painted with high heat black enamel.
- Rain Shield kit composed of two pieces – cover and base
- Available in T-304 or T-316 Stainless Steel Construction.

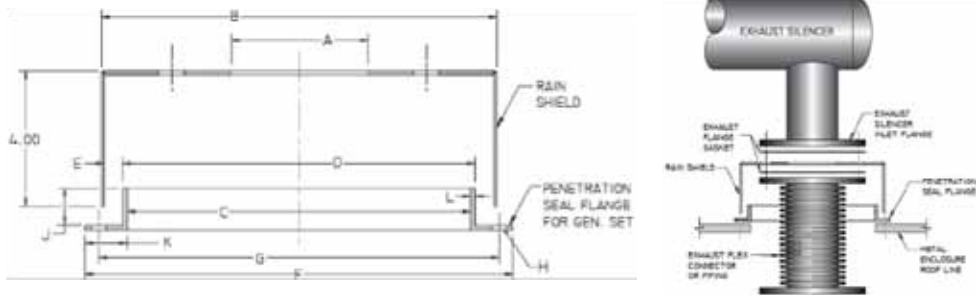
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Rain Shield Kits - Flange



Rain Shield Kit for Flange

Flange Size	Part Number	A (I.D.) Cover	B	C (I.D.) Base	D	E	F	G D.B.C.	H Hole Diameter	I	J	K	L Thk.
4"	80-4358	4.57	11.38	10.13	10.38	0.50	12.63	11.81	0.44	6	1.25	1.25	0.135
5"	80-4359	5.66	12.38	11.13	11.38	0.50	13.88	12.75	0.44	6	1.25	1.25	0.135
6"	80-4360	6.72	13.38	12.13	12.38	0.50	15.13	14.00	0.44	8	1.50	1.50	0.135
8"	80-4361	8.72	15.38	14.13	14.38	0.50	17.13	16.00	0.44	8	1.50	1.50	0.135
10"	80-4362	10.88	18.50	17.13	17.50	0.50	20.13	19.00	0.44	8	1.50	1.50	0.187
12"	80-4363	12.88	21.50	20.13	20.50	0.50	23.13	21.75	0.44	12	1.50	1.50	0.187
14"	80-4364	14.14	23.50	22.13	22.50	0.50	25.13	23.75	0.44	12	1.50	1.50	0.187
16"	80-4365	16.16	26.00	24.13	24.50	0.75	27.13	25.88	0.44	12	1.50	1.50	0.187
18"	80-4366	18.18	28.00	26.13	26.50	0.75	30.13	28.38	0.44	16	2.00	2.00	0.187

- ⚙️ All steel components are painted with high heat black enamel.
- ⚙️ Rain Shield kit composed of two pieces – cover and base.
- ⚙️ Available in T-304 or T-316 stainless steel construction.

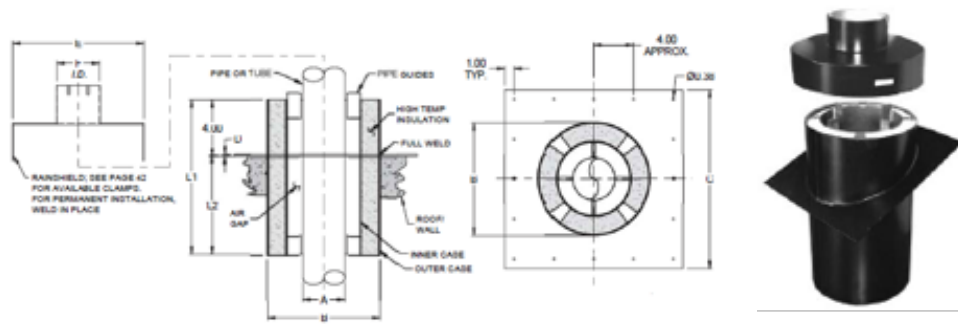
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Insulated Roof/Wall Thimble



Insulated Roof/Wall Thimble

Pipe/Tube O.D. (A)	Part Number	B	C	D	E	F	L1	L2
1.50"	80-4367	10.00	16.00	0.25	12.00	1.54	13.00	9.00
1.90"	80-4368	10.00	16.00	0.25	12.00	1.94	13.00	9.00
2.00"	80-4369	10.00	16.00	0.25	12.00	2.04	13.00	9.00
2.38"	80-4370	10.00	16.00	0.25	12.00	2.42	13.00	9.00
2.50"	80-4371	10.00	16.00	0.25	12.00	2.54	13.00	9.00
2.88"	80-4372	10.00	16.00	0.25	12.00	2.92	13.00	9.00
3.00"	80-4373	12.00	18.00	0.25	14.00	3.04	13.00	9.00
3.50"	80-4374	12.00	18.00	0.25	14.00	3.54	13.00	9.00
4.00"	80-4375	12.00	18.00	0.25	14.00	4.04	13.00	9.00
4.50"	80-4376	12.00	18.00	0.25	14.00	4.54	13.00	9.00
5.00"	80-4377	14.00	20.00	0.25	16.00	5.04	13.00	9.00
5.56"	80-4378	14.00	20.00	0.25	16.00	5.62	13.00	9.00
6.00"	80-4379	14.00	20.00	0.25	16.00	6.04	13.00	9.00
6.63"	80-4380	14.00	20.00	0.25	16.00	6.67	13.00	9.00
8.00"	80-4381	16.00	22.00	0.25	18.00	8.06	13.00	9.00
8.63"	80-4382	16.00	22.00	0.25	18.00	8.67	13.00	9.00
10.00"	80-4383	18.00	24.00	0.25	20.00	10.06	13.00	9.00
10.75"	80-4384	18.00	24.00	0.25	20.00	10.81	13.00	9.00
12.00"	80-4385	20.00	26.00	0.25	22.00	12.06	13.00	9.00
12.75"	80-4386	20.00	26.00	0.25	22.00	12.81	13.00	9.00
14.00"	80-4387	22.00	28.00	0.25	24.00	14.06	13.00	9.00
16.00"	80-4388	24.00	30.00	0.25	26.00	16.06	13.00	9.00
18.00"	80-4389	26.00	32.00	0.25	28.00	18.06	13.00	9.00
20.00"	80-4390	28.00	34.00	0.25	30.00	20.06	13.00	9.00
22.00"	80-4391	30.00	36.00	0.25	32.00	22.06	13.00	9.00
24.00"	80-4392	32.00	38.00	0.25	34.00	24.06	13.00	9.00

- ✦ Meets or exceeds NFPA 37 requirements.
- ✦ Designed with structural integrity.
- ✦ Heavy wall steel construction.
- ✦ Built-in pipe guides eliminates hot spots.
- ✦ High temperature insulation rated at 2,300°F.
- ✦ Standard finish high heat black enamel.
- ✦ B through F: Carbon Steel.
- ✦ L1 & L2 fits 1" through 5" thick wall/roof.

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Insulation Blankets

Benefits

Insulation blankets on your diesel exhaust systems offer the following benefits:

- reduce external system surface temperature by as much as 1,000°F
- silence sound by as much as 3 dB
- substantially reduce heat transfer into buildings and enclosures
- multi-use; remove and reuse on other diesel exhaust systems

About the Blankets

Universal brand insulated blankets are constructed of three unique plies:

Inside Ply is made of a knitted stainless steel wire mesh

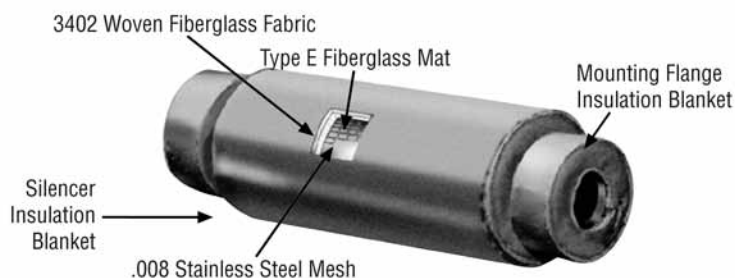
Middle Ply is a Type E fiberglass insulation*

Outer Ply is made from silicone-impregnated fiberglass fabric

High-temperature resistant silicone provides significantly longer life and improved resistance to abrasion, flexing wear, tears and punctures. The heavy-duty, inner-lining fabric is resistant to oils and acids/alkalis, as well as being flame retardant.

All blanket edges are machine-stitched using high grade fiberglass thread and fastened with permanently mounted, stainless steel hooks. The blankets are laced in place "boot-style" with stainless steel tie wire, resulting in a custom-made "glove fit."

*Type E fiberglass insulation is designed for insulation within high-temperature equipment. It is manufactured from chopped fiberglass fibers and is free of resinous binders, which enables its use in the high-temperature ranges. Type E insulation is flexible, lightweight and will not compact under vibration.



Specifications

Each insulation blanket conforms with the requirements of Military Specifications MIL-I-164-E, Type II

Ordering Information

Please contact your QuietShield representative to receive an insulation blanket quote on a QuietShield model. QuietShield offers low skin temperature designs as standards in Type 1 and Type 3 configuration Ultra-Quiet grade, and Type 2 configuration Critical and Hospital grades. Therefore, insulation blankets are not required for these models.

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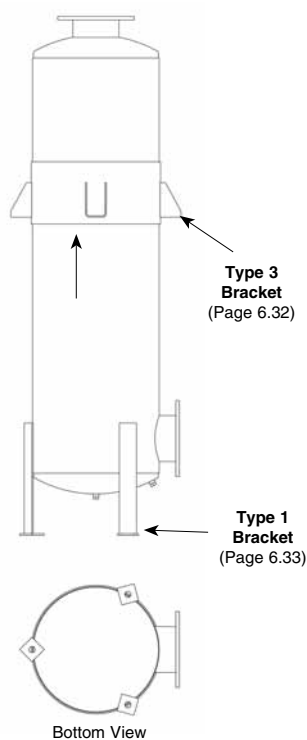
Mark up the outline drawing above and fax to (608) 873-7298 or scan and email to info@universalAET.com

Weld-On Attachment Brackets

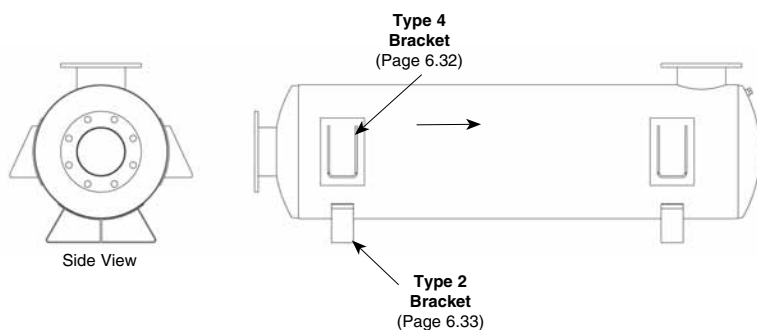
Universal provides several options for attaching the silencer to a structure or floor.

Vertical silencer installations have a Type 1 or 3 attachment option. Horizontal silencer installations have a Type 2 or Type 4 attachment option. Please indicate attachment option on order. The brackets and legs will be factory installed so no field welding is required.

VERTICAL INSTALLATION



HORIZONTAL INSTALLATION

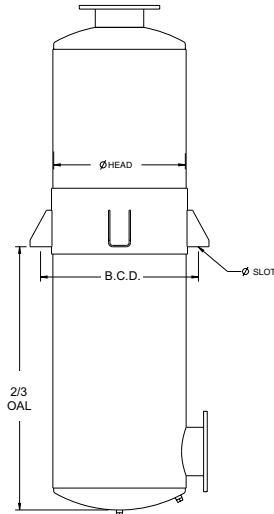


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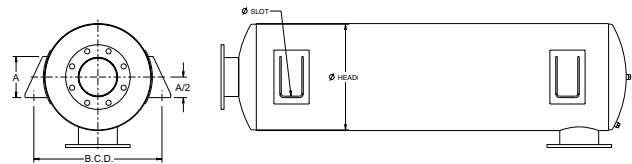


Vertical Shell Lugs (Type 3)

Body Diameter (Ø Head)	Bolt Circle Diameter (B.C.D.)	Slot Diameter
8	10.38	0.5
10	13.63	0.75
12	15.63	0.75
14	17.63	0.75
16	19.63	0.75
18	23.5	1
20	25.56	1
22	27.56	1
24	29.56	1
26	31.56	1
30	35.63	1
36	41.63	1
42	49.63	1.25
48	55.75	1.25
54	61.75	1.25
60	67.75	1.25
66	74	1.25

Horizontal Shell Lugs (Type 4)

Body Diameter (Ø Head)	Bolt Circle Diameter (B.C.D.)	Slot Diameter
8	10.38	0.5
10	13.63	0.75
12	15.63	0.75
14	17.63	0.75
16	19.63	0.75
18	23.5	1
20	25.56	1
22	27.56	1
24	29.56	1
26	31.56	1
30	35.63	1
36	41.63	1
42	49.63	1.25
48	55.75	1.25
54	61.75	1.25
60	67.75	1.25
66	74	1.25



⚠ Specify distance between shell lugs on order. Otherwise lugs are placed approximately 1/4 of overall length, from each end of the body.

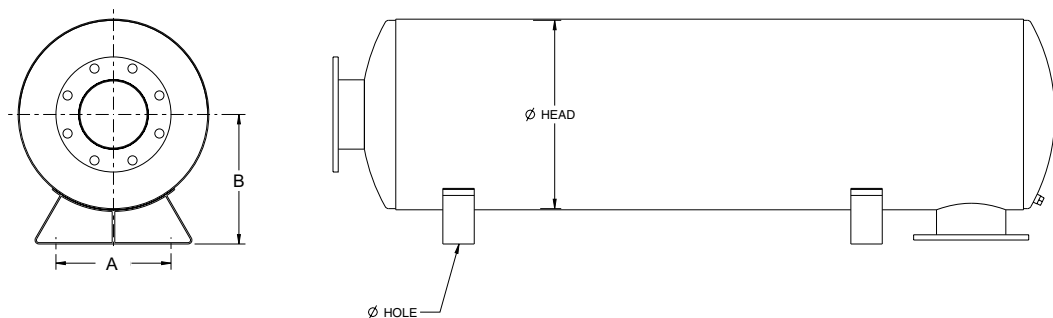
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Weld-On Attachment Brackets



Mounting Saddles (Type 2)

Body Diameter	A	B	Bolt Hole	Saddle Thickness
8	3.5	7.375	0.625	0.1345
10	5.5	8.375	0.625	0.1345
12	6.5	9.375	0.625	0.1345
14	9	10.375	0.75	0.1345
16	9	11.375	0.75	0.1345
18	11	12.375	1	0.1345
20	12	13.375	1	0.1345
22	12.5	14.5	1	0.1875
24	13	15.5	1	0.1875
26	15	16.5	1	0.1875
30	17	18.625	1	0.25
36	19	21.625	1.25	0.25
42	23	24.625	1.25	0.25
48	26	28	1.25	0.375
54	30	31	1.375	0.375
60	34	34	1.375	0.375
66	37	37	1.375	0.375

⚠ Specify distance between saddles on order. Otherwise saddles are placed approximately 1/4 of overall length, from each end.

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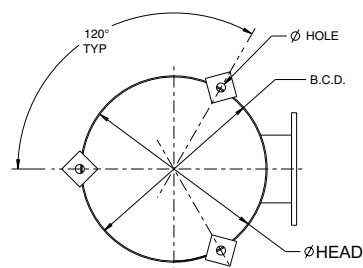
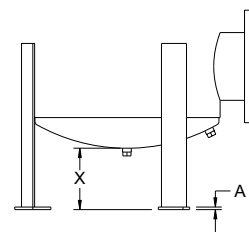
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Weld-On Legs

Legs (Type 1)

Body Diameter (\varnothing Head)	Bolt Circle Diameter (B.C.D.)	Bolt Hole	Base Pad Thickness (A)	Base Pad Width
8	7.81	0.88	0.1875	1.5
10	10.19	0.88	0.25	2.5
12	12.25	0.88	0.25	2.5
14	14.25	0.88	0.25	2.5
16	16.31	0.88	0.25	2.5
18	18.38	0.88	0.25	2.5
20	20	1	0.375	4
22	22	1	0.375	4
24	24.06	1	0.375	4
26	26.06	1	0.375	4
30	30.06	1	0.375	4
36	36.13	1.25	0.5	5
42	42.19	1.25	0.5	5
48	48.25	1.25	0.5	5
54	54.13	1.375	0.75	7
60	60.13	1.375	0.75	7
66	66.38	1.375	0.75	7



∴ X dim represents specified height, 0 to 42". Specify X dimension on order.

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